

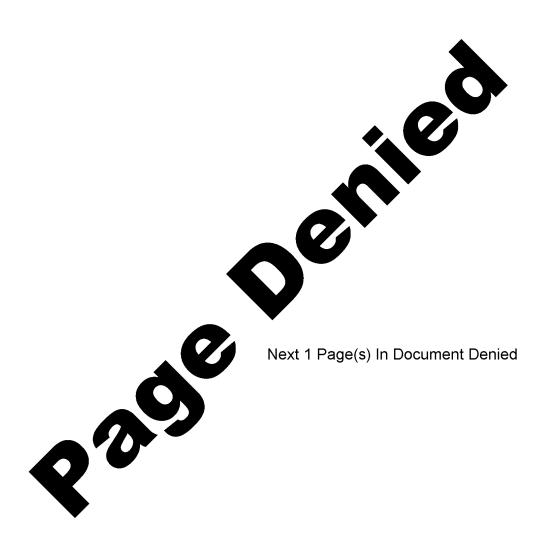
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		EXRAND-M-46 17 September 1971	
	COMIREX SUBCOMMITTEE	•	
	For EXPLOITATION RESEARCH AND DEV	/ELOPMENT	•
	Minutes of Meeting Held in IAS Cor 0900-1130, Wednesday, 25 Augu		
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	MEMBERS AND STAFF PRESE	<u>NT</u>	
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	*Briefing on Special Project Only		
	1. Special Item.		
		CONFIDENTIAL	25X1
·	committee. A previously scheduled briefing, "I Impacts", will be presented at a later time.	Navy project to the sub- Future Technological	
	GROUP 1: EXCLUDED FROM AUTOMATIC DOWNGRADING		25X
•	AND DECLASSIFICATION		25/
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	2. Approval of Minutes.		
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	The Executive Secretary noted some of the meeting (EXRAND-M-45) and the minutes of that approved.		
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	3. Announcements.		
	The Chairman neid tribute	UNCLASSIFIED	25V1
	a. The Chairman paid tribute meeting as representative of NPIC. He noted	on his last was assigned	25X1 25X1
	to NPIC from DIA and has served at times as D		25/1
	and Engineering, a Special Technical Assistan		
	Programs, and chairman of several special students		•
	We know him as the NPIC Representative to EXR		
	Technical Task Team. He is an extremely know fessional R&D man dedicated to working for the		
	nity. He has been selected to study at George		
,	advanced degree. The Chairman presented	with the EXRAND	25X1
	award for outstanding service.		_0,(,
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	h Mar Proposition Constant was 1 Alan	UNCLASSIFIED	
	b. The Executive Secretary noted that contribution trip report had been sent to members and part	opies of the west coast icinants.	
	end to have been been been been been been been be		
		UNCLASSIFIED	
	c.	the new Chairman	25 X 1
	of the Technical Task Team.		
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	d. The Executive Secretary requested the	-	
ŧ	requirements for the Third Annual Report be p		
	There are still interested parties that have		
	copies. The members were requested to provide		
	distribution. There followed a lengthy discus		
	classification of the report which is now con-		
	quired usage. The next publication will be produced in the production of the product	repared to allow for a	
	reduction in the security level of the report		
	COMIREX membership regarding this reduction is report will be attempted.	in security level for this	
	F no monumboom.		
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to the kind of o	introduced the new munity reference interpoptical knowledge and pain the community. In	nded for optica problems unique	to imagery exploita-
	the new NPIC Represer to distribute this har orders should be placed	ndbook within t	
4. Old Business	S.		
a. Coordinating Tea actions such as was reminded tha report due befor		o have informat n of surplus eq linating items e Chairman of C	uipment lists. He for inclusion in the OMIREX on "Benefits
scheduled for 27 for this trip and who planned to participants will RADC would be verse a number of ing equipment; in viewing development and computer applications imagery exploits.	ecutive Secretary discustions of the first participate. Indication of the first participate and immediately worthwhile for the first pertinent R&D project indeed, RADC had a substitute latest on SLAR and had laser illumination station system pertaining ation. LCol. Burkard, genda for this trip.	nded out a sche ate preliminary ons from the me stated membership and ts underway on stantial R&D pr for the new sy correlators, a systems. RADC g to the develo	dule and itinerary response from those mbers showed that 18 that the visit to commented that there various kinds of view- ogram in optical film stem is under contract nd on electronic view- also has an extensive pment projects of
to EKC which sti	ecutive Secretary comme ill required permission ne full dav to include	n and coordinat	ion. The visit would
he measured to	set up this trip, if p	possible, at a	
	end 21 October).		
October (recomme	end 21 October).		

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	d. The Executive Secretary will request a spe	SECRET - TKH	
	next meeting concerning the status of Near Real Tim		
	exploitation.		
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	e. Attachment three to EXRAND-M-45 (previous listing of image manipulation and enhancement proje		
	the community. The Executive Secretary noted parti	cularly the conclud-	
	ing paragraph in report calling for the coordination in development and utilization in this		25X1
	occidentation in development and activities in this	outogoly of projects.	
	5. New Business.		
	 	SECRET - TKH	
	a. The Chairman presented to EXRAND a propose the Chairman of COMIREX responding to his requirement.		
•	the effects of equipment usage Th	e Chairman of the	25 X 1
	Technical Task Team had canvassed the Team membersh had prepared the report summarizing the consensus of		
r	community. After a change was made to the paragrap	h referring to the	
	preliminary nature of the report, it was approved a to the Chairman of COMIREX.	ind will now be forwarded	
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	b. The Chairman called for a schedule by the		
,	Chairman for reporting the 1972-73 community R&D pr		25V1
	would form the Fourth Annual Report. p which is attached. At this time the importance of		25 X 1
	tion problem in an attempt to reduce the report to		
	again voiced by the members.		
	6. Special Briefing and Demonstration of ICM.		
	o. Special bileting and bemonstration of icm.	UNCLASSIFIED	
	TSG/NPI briefing on the Image Comparison Microstereoscope (C, who presented a	25 X 1
	had just been delivered as a prototype to NPIC and		
	step of test and evaluation. Following the briefin journed and the EXRAND members were invited to see		
	briefing is attached.	the itm. A resume or	25 X 1
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	Executive Secretar	ry. EXRAND	
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ATTACHMENT ONE TO

EXRAND-M-46

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NPIC/TSG/RED/SDB-100/71 24 August 1971

MEMORANDUM FOR: Chairman, EXRAND

SUBJECT

Schedule for Publication of the .EXRAND Technical Task Team Consolidated R&D Project List, FY 1972 and 1973

The following schedule has been established for the publication of the fourth annual report of the consolidated R&D project list for FY 1972 and 1973.

- 8 September Draft list conference at NPIC
- 5 October Final review conference at NPIC
- 10 December Distribution

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Chairman, Technical Task Team, EXRAND

Distribution:

Original - Addressee

- 1 each EXRAND Member
- 2 Task Team File

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		BRIEFING RESUME			* .
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	IMAGE	COMPARISON MICROST	EREOSCOPE		•
		STATUS REPORT			
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IMAGE COMPARISON MICROSTEREOSCOPE

STATUS REPORT

The Image Comparison Microstereoscope (ICM) was delivered to NPIC on 19 August 1971 after four years of development at Bausch & Lomb, Inc., and at a cost to the government of some This experimental prototype has been developed to permit the photo analyst to rapidly compare film chips from as many as four different reconnaissance missions or sensors. Three stereo techniques (mechanical and electrical alternating, and "split field stereo" -- simultaneous, side-by-side display of two stereo pairs) and five non-stereo techniques (split field mono, superimposition, "traveling" split field, flicker, and color comparison) have been incorporated.

The instrument -- essentially, two microstereoscopes merged into a single device with a single binocular viewing position -- contains four optical paths, each with 10X to 115X zoom magnification, anamorphic correction (for difficult stereo fusion and approximate superimposition rectification), image rotation, and high intensity light sources. These are combined into a binocular comparison system containing numerous prisms, beam splitters, masks, and mirrors. The design goal for maximum system resolution was 600 lines/mm. Four independently rotatable 5" x 5" film chip stages are interconnected by unique pantograph linkages for both independent and common lateral translation.

The ICM is currently undergoing Acceptance Tests, to be followed by an intensive Engineering Evaluation. It will be thoroughly tested for application to photo interpretation, image quality assessment, and manipulation of unconventional imagery. Representative interpreters from resident NPIC components will be individually trained in ICM operation and then utilized as test subjects in various Human Factors and Operational Suitability Evaluations over a four-month period. A major goal of these evaluations will be to determine the relative value of the available comparison techniques and simplify the design of any follow-on development. The resident NPIC components taking part in these scheduled evaluations include DIA/DI-8, Army/SPAD, and CIA/IAS -- in addition to NPIC engineering and operational groups. The ICM will be

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available for evaluation by other potential users in early calendar year 1972. Depending upon the results of both these and the scheduled T&E, NPIC plans to solicit orders for a joint purchase of follow-on ICM's before the end of FY-1972.

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